DO NOT ENTER OCT. 28, 2008. T.T.

Proposed Amendments to claims of US Patent Application No. 10/531,836 10/551,836

Submitted to Examiner Theresa Thieu on October 22, 2008 via Facsimile Fax No. 571-273-4868

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Proposed claim amendment to be discussed during telephone interview scheduled for October 28, 2008 at 2:00 pm EST

Claim I (currently amended). A double-screw compressor for supplying gas to a gas consumer and comprising two interacting rotors for compressing the gas and a toothed gearing, which toothed gearing comprises:

- a. a housing with two opposite end walls which are made of a first material,
- b. two parallel gearwheel shafts, which are each connected to one of the rotors and mounted rotatably in the opposite end walls with a nominal center distance,
- two interacting gearwheels which are fixed on a respective gearwheel shaft and made of a second material, each gearwheel having involute teeth corresponding to one another designed so as, when engagement between teeth on their respective wheels takes place, to form a nominal backlash between the teeth interacting during the engagement, when the gearwheel shafts are located at the nominal center distance from one another and
- d. the first and second materials having different thermal expansion coefficients, characterized in that each of the gearwheels is designed with comprises one and the same nominal pressure angle which is smaller than 15° in order to minimize the deviation of the actual backlash from the nominal backlash when the <u>a</u> center distance deviates from the nominal center distance as a consequence of a change in temperature of one of the parts included in the screw compressor.

Claim 8(currently amended). A method of, in a double-screw compressor for supplying gas to a gas consumer reducing the effect of temperature variations of parts in the double-screw compressor on the functioning of the double-screw compressor, which double-screw compressor comprises two interacting rotors for compressing the gas and a toothed gearing, where:

- i. the toothed gearing is designed with:
 - (1) a housing with two opposite end walls which are made of a first material,
 - (2) two parallel gearwheel shafts, which are each connected to one of the rotors and mounted rotatably in the opposite end walls with a nominal center distance,
 - gearwheel shaft and made of a second material, each gearwheel having involute teeth corresponding to one another designed so as, when engagement between teeth on their respective wheels takes place, to form a nominal backlash between the teeth interacting during the engagement, when the gearwheel shafts are located at the nominal center distance from one another and
- ii. the first and second materials are selected so that they have different thermal expansion coefficients, characterized in that
- the pressure angle of the gearwheels is dapted within the range 0° to 15° in order to minimize the deviation of the actual backlash from the nominal backlash when the a center distance deviates from the nominal center distance as a consequence of a change in temperature of one of the parts included in the screw compressor.

Claim 9(canceled).